

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/661,825	09/12/2003	Shinichiro Watanabe	KIOI:036 7722		
759	90 09/01/2006		EXAMINER		
ROSSI & ASSOCIATES			CHARLES, MARCUS		
P.O. Box 826 Ashburn, VA	20146-0826	ART UNIT	PAPER NUMBER		
, · ·			3682		
			DATE MAILED: 09/01/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	Application No. Applicant(s						
		10/661,825		WATANABE ET AL.					
Office Actio	n Summary	Examiner		Art Unit					
		Marcus Char	I I	3682					
The MAILING DAT Period for Reply	TE of this communication ap	pears on the c	over sheet with the c	orrespondence ac	idress				
WHICHEVER IS LONGE - Extensions of time may be avail after SIX (6) MONTHS from the - If NO period for reply is specifier - Failure to reply within the set or	TORY PERIOD FOR REPLER, FROM THE MAILING Dable under the provisions of 37 CFR 1. mailing date of this communication. d above, the maximum statutory period extended period for reply will, by statut later than three months after the mailin See 37 CFR 1.704(b).	DATE OF THIS .136(a). In no event, I will apply and will ex te, cause the applica	COMMUNICATION however, may a reply be tim kpire SIX (6) MONTHS from tion to become ABANDONED		,				
Status									
1) Responsive to con	nmunication(s) filed on 28 J	lune 2006							
2a) This action is <b>FIN</b>		s action is non	-final ·						
<i>•</i> —									
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims	·	,	,,						
4)⊠ Claim(s) 1-3 is/are	pending in the application								
	Claim(s) <u>1-3</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
·	☐ Claim(s) is/are allowed. ☐ Claim(s) 1-3 is/are rejected.								
	Claim(s) is/are objected to.								
	e subject to restriction and/o	or election requ	uirement.						
Application Papers					•				
•	objected to by the Examine	or		,					
_			chiected to by the F	vaminor					
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
	ation is objected to by the E				, ,				
Priority under 35 U.S.C. § 1	l <b>19</b>								
	made of a claim for foreigr * c) None of:	n priority under	35 U.S.C. § 119(a)	-(d) or (f).					
1.⊠ Certified cop	pies of the priority documen	its have been r	eceived.						
2. Certified cop	<del></del>								
3. Copies of the	e certified copies of the pric	ority document	s have been receive	d in this National	Stage				
application f	rom the International Burea	au (PCT Rule 1	7.2(a)).						
* See the attached de	tailed Office action for a list	t of the certified	d copies not receive	d.					
Attachment(s)									
1) Notice of References Cited (F	PTO-892)	4)	☐ Interview Summary (		•				
2) $\square$ Notice of Draftsperson's Pate 3) $\boxtimes$ Information Disclosure Stater	ent Drawing Review (PTO-948)	, <u>e</u> v	Paper No(s)/Mail Da		D 452)				
Paper No(s)/Mail Date <u>4/25/0</u>	nem Application (PTC	J-132)							

Art Unit: 3682

## **DETAILED ACTION**

This action is responsive to the amendment filed 6-28-2006, which has been entered.

Claims 1-3 are currently pending.

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 3. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In line 9,the intended scope of the claim is unclear and confusing because it is not clear what value of the secondary pressure that must be multiplied; it is unclear if the phrase "intended to be specified" is a positive language of the claim. In addition, it is unclear if the limitations after the phrase are part of the claimed invention.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 3682

5. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inamura (US 6,800,044) in view of Miyagawa et al. (6,547,694). Inamura discloses a speed change control apparatus of a CVT comprising primary and secondary pulleys (15, 16), the primary pulley is inherently connected to the engine side (2/3) and the second pulley connected to the output shaft (14); an oil pump (30) inherently connected the engine for generating pressure to the line pressure for operating the primary pulley: a hydraulic control section (40) that controls the line pressure and the secondary pressure (see 36); a range detecting mechanism (41) that detects the range to be selected; a primary rotation sensor (44) that detects the rotational speed of the output shaft to from the engine to the primary pulley. It is apparent that the hydraulic control section is operable during the time interval of the change from the driving range to the non-driving range and vice visa. Inamura inherently discloses the control unit calculating the value of the line pressure according to the oil amount balance of the oil pump relative to the engine speed and controlling the line pressure according to the calculated line pressure but fails to disclose the an engine speed detecting mean for detecting the speed of the engine and also, fails to disclose the control unit is operable during the period of time after driving range the non driving range or the non driving range to the driving range has been detected for calculating the value of the line pressure according to the oil amount balance relating to the engine speed and controlling the line pressure according to the calculated value of the line pressure. Miyagawa et al. discloses a hydraulic control system for CVT such that the control unit compares the actual transmission ratio and controls the line pressure depending on the completion of the

Application/Control Number: 10/661,825

Art Unit: 3682

Page 4

shift and base on the signal of the inhibitor switch, which determines when the shift lever is in the driving range and non-driving range and an engine speed detecting means (Ne). Therefore, it would be obvious to one of ordinary skill in the art the time of the invention to modify the device of Inamura so that the control unit is operable during the period of time after driving range the non driving range or the non driving range to the driving range in view of Miyagawa et al. in order to allow for inadvertently axial movement of the pulley sheaves and to induce proper clamping forces on the belt and to further provide a engine speed sensor so as to determine the torque of the transmission

6. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Inamura in view of Miyagawa et al. as applied to claim 1 above, and further in view of JP (401153851) to Murono et al. Inamura discloses the claimed invention except for an oil temperature sensor that detects a temperature in the CVT. Murono et al. discloses that It is well know in the art to incorporate an oil temperature sensor in cvt in order to detect the condition of the oil so as to control the line pressure and thus determine whether to increase or decrease the line pressure at the time of high or low pressure via the control valve. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the device of Inamura with a oil temperature sensor in view of Murono et al. as to control the line pressure so as to determine whether to increase or decrease the line pressure at the time of high or low pressure via the control valve.

Application/Control Number: 10/661,825

Art Unit: 3682

Allowable Subject Matter

Page 5

7. Claim 3 would be allowable if rewritten to overcome the rejection(s) under 35

U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the

limitations of the base claim and any intervening claims.

Citation

8. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure Tanaka et al (4,923,433), Ajimoto (6,733,417) and Kato et al.

(5,067,603 disclose a CVT with a engine speed sensor.

Response to Arguments

9. Applicant's arguments with respect to claims 1-2 have been considered but are

moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Marcus Charles whose telephone number is (571) 272-

7101. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ridley Richard can be reached on (571) 272-6917. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Marcus Charles
Primary Examiner

Art Unit 3682

August 28, 200